
ACROSS BORDERS

AN OVERVIEW OF ISSUES IN
MANAGEMENT & BUSINESS / SCIENCE & TECHNOLOGY
/ SOCIAL SCIENCE & HUMANITIES
2009-2011

PROJECT TEAM

Dr. Roaimah Hj. Omar
Dr. David Loh Er Fu
Nor Raihan Abu Bakar
Siti Zuraina Gafar@Abd Ghaffar
Muhamad Hanapi Khamis
Siti Nurshahidah Sah Allam

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**Division of Research, Industrial Linkages & Alumni
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Cawangan Melaka**

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PREFACE

Across Borders is designed for use in knowledge development in various disciplines. It is written to accommodate the interest of academicians and industry. The compilation of research abstracts from different fields provides valuable information to assist the expansion of knowledge and development. It also serves as a reference for Universiti Teknologi MARA (UiTM) Melaka Campus and the Division of Research, Industrial Linkages & Alumni.

The compilation of proceeding abstracts includes 83 research abstracts that are divided into 3 sections according to their respective disciplines; Management and Business, Science and Technology, and Social Science and Humanities.

It is hoped that this book would inspire its readers to undertake further research in the specific fields or disciplines.

ACKNOWLEDGEMENT

The project team of this Across Borders would like to express their deepest appreciation to all the researchers from the various faculties for their participation. Without their on-going contributions the book would not be possible. We are indebted to the Rector of Universiti Teknologi MARA (UiTM) Melaka Campus and the Division of Research, Industrial Linkages & Alumni for mooted the idea of having this book and getting the project started.

We would like to sincerely thank all our friends, colleagues, and acquaintances for their roles, direct and indirect contributions and invaluable support in the compilation of the 83 proceeding abstracts.

APPLICATIONS OF SOLAR TECHNOLOGY AND POLYSTYRENE MATERIAL FOR SOLAR BOAT COMPETITION MALAYSIA 2011

Zulkarnain Jamak
Rafidah Abd. Karim

ABSTRACT

Green technology is a move for the future generations. This paper focuses on the efforts and experiences shared in applying green technology by using solar panels to drive the motor for the purpose of carrying the designed solar boat in the Solar Boat Malaysia 2011 competition. Promoting the use of solar energy has attracted the researchers to design the desired type of boat in terms of shape and motor capacity to facilitate the movement of the solar boat for more speed and the best design. The solar boat is designed to accommodate solar panels on the body weight of the motor boat which drives it. The speed of the solar boat is tested in several stages to ensure maximum level speed can be achieved in the Solar Boat Competition Malaysia 2011. The solar boat is studied from several aspects, especially the ability to apply solar energy to the solar panel so that its speed can be increased. Some experimental tests were also conducted which focused on the selection of materials from polystyrene, and the selection and concentration of solar panels to the experimental design boats that formed the solar model. The results found that the selection of materials from polystyrene is the fastest boat designed. Besides, the selection of heavy solar power 100gram and 2 Watt and the experimental results indicate that it is one of the fastest boats designed. Hence, Solar Boat Team has won fourth place in the Solar Boat Competition Malaysia 2011 on 26th May to 29th May 2011.

KEYWORDS

Solar Panel, Solar Boat, Material, Speed